

## Abutment verification

### Input data

#### Project

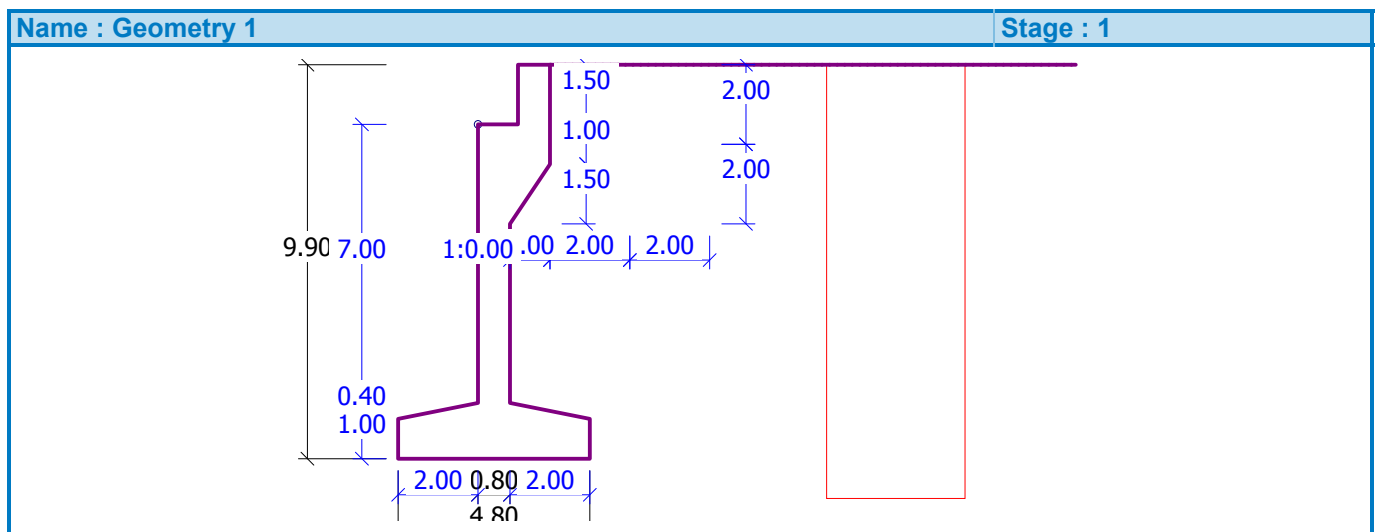
Date : 16.10.2006

#### Geometry of structure

No.	Coordinate X [m]	Depth Z [m]
1	0.00	0.00
2	0.00	1.50
3	0.00	2.50
4	-1.00	4.00
5	-1.00	8.50
6	1.00	8.90
7	1.00	9.90
8	-3.80	9.90
9	-3.80	8.90
10	-1.80	8.50
11	-1.80	1.50
12	-0.80	1.50
13	-0.80	0.00

The origin [0,0] is located at the most upper right point of the wall.  
Wall section area = 14.47 m<sup>2</sup>.

Length of bridge abutment = 5.00 m  
Length of abutment foundation = 5.40 m



#### Abutment wingwalls - hinged symmetric

Wingwall thickness = 0.40 m  
Length of wingwall behind closure wall = 4.00 m  
Wingwall height = 4.00 m  
Dist. of wingwall cut from c.w. = 2.00 m  
Depth of wingwall cut = 4.00 m

#### Abutment material

Bulk weight = 25.00 kN/m<sup>3</sup>

Concrete80, Steel 10216

### Load case, bridge load

Type of load case : service state.

#### Forces generated by bridge

Vertical force  $F_s = 0.00$  kN

Horizontal force  $F_v = 0.00$  kN

Location  $a_1 = 0.00$  m

Depth  $v = 0.00$  m

#### Forces due to transition slab

Vertical force  $F_s = 0.00$  kN

Horizontal force  $F_v = 0.00$  kN

Location  $a_2 = 0.00$  m

### Geological profile and assigned soils

No.	Layer [m]	Assigned soil	Pattern
1	-	Soil is not assigned	

### Terrain profile

Terrain behind the structure is flat.

### Water influence

Ground water table is located below the structure.

### Resistance on front face of the structure

Resistance on front face of the structure is not considered.

### Analysis settings

Active earth pressure calculation - Coulomb (CSN 730037)

Passive earth pressure calculation - Caquot-Kerisel (CSN 730037)

Standard for concrete structures - CSN 73 6206

Analysis carried out according to CSN 730037 standard (with reduction of soil input parameters).